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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/021,376	12/06/2001	Guy Harles	HO659/7009 WRM	2569
7590 08/02/2004		·	EXAMINER	
William R. McClellan, Esq.			PATHAK, SUDHANSHU C	
Wolf, Greenfield & Sacks, P.C. Federal Reserve Plaza 600 Atlantic Avenue Boston, MA 02210			ART UNIT	PAPER NUMBER
			2634	6
			DATE MAILED: 08/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	_	Application No.	Applicant(s)			
Office Action Summary		10/021,376	HARLES ET AL.			
		Examiner	Art Unit			
	·	Sudhanshu C. Pathak	2634			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communications of period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on Deco	ember 6 th , 2001.				
2a)□	•	s action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,4 and 5 is/are rejected. 7) Claim(s) 3 and 6 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>December 6th</u> , <u>2001</u> is/s. Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected to be specification.	are: a)⊠ accepted or b)□ object drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1. Paper No(s)/Mail Date 1. Paper No(s)/Mail Date 1.						

Application/Control Number: 10/021,376 Page 2

Art Unit: 2634

DETAILED ACTION

1. Claims 1-to-6 are pending in the application.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1, 4 (Method & Apparatus) are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 6 & 15 (Method & Apparatus) of U.S. Patent No. 6,535,546 (Bethscheider et al.). Although the conflicting claims are not identical, they are not patentably distinct from each other.

Regarding to Claims 1 & 4, the claims 6 & 15 of the issued patent (6,535,546) disclose all the limitations as recited in the claims 1 & 4 of the present application. The claims 1 & 4 of the present application merely broaden the scope of patent claims 6 & 15, by reciting that the spreaded clean carrier signal is transmitted through the communication channel at a first <u>predetermined level</u>, wherein the claims 6 & 15 of the patent disclose that the clean carrier signal is transmitted

Application/Control Number: 10/021,376

Art Unit: 2634

through the communication channel at a level <u>below the level of the payload signal</u>. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention that in the patented claims the level of the clean carrier signal transmitted is predetermined and is below the level of the payload signal. Furthermore, the patented claims describe how the correlation peak is determined and implemented to determine the amplitude response of the communication channel. Furthermore, the patented claims disclose determining both the amplitude response <u>and</u> the group delay of the communication channel. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention that the application claims 1 & 4 would be obvious by reading the patented claims 6 & 15.

4. Claims 2, 5 (Method & Apparatus) are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 6 & 15 (Method & Apparatus) of U.S. Patent No. 6,535,546 (Bethscheider et al.) in view of U.S. Patent No. 4,637,017 (Assal et al.).

Regarding to Claims 2 & 5, the claims 6 & 15 of the issued patent (6,535,546) disclose all the limitations as recited in the claims 1 & 4 of the present application. However, the claims of the above-mentioned patent (6,535,546) do not disclose that the payload signal is transmitted at the communication channel adjacent to the channel where the spreaded clean carrier signal is transmitted.

Assal discloses a method for monitoring the characteristics of the transmitter amplifier in a satellite communication system so as to avoid adjacent channel

Application/Control Number: 10/021,376

Art Unit: 2634

Page 4

interference (Abstract, lines 1-22 & column 1, lines 10-25 & Column 2, lines 54-68 & Column 3, lines 1-41). Assal also discloses transmitting a continuous wave (CW) pilot for the process of the determination and monitoring the amplifier adjacent to the payload signal (Column 5, lines 14-35, 50-68 & Column 6, lines 1-23 & Column 3, lines 54-68 & Claim 1 & Fig. 2, 5-6). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention that Assal teaches transmitting a pilot signal at a frequency adjacent to the channel frequency of the payload signal, and this can be implemented in the system as described in Bethscheider so as to simultaneously determine the level of the adjacent channel signal so as to avoid the interference between adjacent signals in a satellite communications system, thus satisfying the limitation of the claim.

Allowable Subject Matter

5. Claims 3, 6 (Method & Apparatus) are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sudhanshu C. Pathak whose telephone number is (703)-305-0341. The examiner can normally be reached on M-F: 9am-6pm.
 - If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (703)-305-4714.

Application/Control Number: 10/021,376

Art Unit: 2634

- The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sudhanshu C. Pathak

- Stephen Chin /ISORY PATENT EXAMINE: Page 5

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